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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,949	04/02/2004	Chen-Huang Fan	ACMP0048USA	4656
27765	7590	03/25/2008		
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116			EXAMINER CERVETTI, DAVID GARCIA	
			ART UNIT	PAPER NUMBER
			2136	
			NOTIFICATION DATE	DELIVERY MODE
			03/25/2008	ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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<b>Office Action Summary</b>	<b>Application No.</b> 10/708,949	<b>Applicant(s)</b> FAN ET AL.	
	<b>Examiner</b> David Garcia Cervetti	<b>Art Unit</b> 2136	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 28 December 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 April 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### DETAILED ACTION

1. Applicant's arguments filed December 28, 2007, have been fully considered but they are not persuasive.
2. Claims 1-24 are pending and have been examined.

### *Response to Amendment*

3. Regarding the argument that the patent does not use inerasable memory, Examiner respectfully submits that the claim language used in the patent makes it clear that the generating module does not store information generated, therefore anticipating using inerasable memory in the instant application. **Applicant's arguments are not persuasive.**
4. The arguments presented above with respect to the double patenting rejections, pertain to the 35 U.S.C. 102(f) rejection. **Applicant's arguments are not persuasive.**
5. Regarding the argument that Kirsch does not teaches unreadable information that affords the decryption of data, Examiner respectfully submits that the decrypting function is stored in read only memory as correctly pointed out by applicant. Furthermore, the function and the key data stored in user module are inerasable/read-only, etc, as they only receive writing instruction internally, not from external information or commands, in other words, from a user's perspective the information is inerasable. **Applicant's arguments are not persuasive.**
6. The invention describes the inerasable key not only as memory, but a key stored in a protective manner (see par. 10). Examiner has given the claims the broadest reasonable interpretation consistent with the specification.

7. Even assuming arguendo Examiner is incorrect, using read-only memory to store information that is not intended to be modified by a user/program was conventional and well known. Therefore, Kirsch provides at the very least, the architecture to implement the claimed invention, since the only modification the claimed invention allegedly makes is to replace one memory type for another. **Applicant's arguments are not persuasive.**

#### ***Information Disclosure Statement***

8. It is noted that no Information Disclosure Statement has been filed on this application.

#### ***Double Patenting***

9. Claims 1-24 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-22 of US Patent 7,177,425.

10. Although the conflicting claims are not identical, they are not patentably distinct from each other because

- “determining whether a communication device is permitted to access communication service in a communication network, the communication device comprising: a data memory capable of storing ciphertext access information; and an inerasable memory capable of storing a deciphering key in a non-volatile way; the method comprising: reading the deciphering key in the inerasable memory and the ciphertext access information in the data memory; and deciphering the ciphertext access information to plaintext access information according to the deciphering key by using a predetermined cryptography algorithm, and determining whether the communication device is

permitted to access communication service in the communication network accordingly”

(claim 1, instant application) is analogous to

- “A device, used in a communication apparatus, for securing an information associated with a subscriber, said communication apparatus comprising a cipher-key generating module for generating a cipher key, said device comprising: a storage module, which the information associated with the subscriber, is stored in; a cipher-key acquiring module for transmitting an input to the cipher-key generating module, and then receiving the cipher key generated by the cipher-key generating module in response to the input; an encrypting module for retrieving the cipher key through the cipher-key acquiring module, retrieving the information associated the subscriber from the storage module, and encrypting the information associated with the subscriber using the cipher key to generate an encrypted information, wherein after generated, the encrypted information is stored in the storage module and replaces the information associated with the subscriber stored in the storage module; and a decrypting module for retrieving the cipher key through the cipher-key acquiring module, retrieving the encrypted information from the storage module, and decrypting the encrypted information using the cipher key to recover the information associated with the subscriber when the information associated with the subscriber needs to be used, and wherein when the decrypting module retrieves the cipher key through the cipher-key acquiring module, the cipher-key acquiring module transmits the input once more to the cipher-key generating module, and then receives the cipher key generated once more by the cipher-key generating module in response to the input” (claim 1, Patent).

11. This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

12. Claims 1-22 of US Patent 7,177,425 contain every element of claims 1-24 of the instant application and thus anticipate the claims of the instant application. Claims 1-24 of the instant application therefore are not patently distinct from the patent claims and as such are unpatentable for obvious-type double patenting. A later patent/application claim is not patentably distinct from an earlier claim if the later claim is anticipated by the earlier claim.

13. “A later patent claim is not patentably distinct from an earlier patent claim if the later claim is obvious over, or anticipated by, the earlier claim. In re Longi, 759 F.2d at 896, 225 USPQ at 651 (affirming a holding of obviousness-type double patenting because the claims at issue were obvious over claims in four prior art patents); In re Berg, 140 F.3d at 1437, 46 USPQ2d at 1233 (Fed. Cir. 1998) (affirming a holding of obviousness-type double patenting where a patent application claim to a genus is anticipated by a patent claim to a species with that genus). “ELI LILLY AND COMPANY v BARR LABORATORIES, INC., United States Court of Appeals for the Federal Circuit, ON PETITION FOR REHEARING EN BANC (DECIDED: May 30, 2001).

14. “Claim 12 and Claim 13 are generic to the species of invention covered by claim 3 of the patent. Thus, the generic invention is “anticipated” by the species of the patented invention. Cf., Titanium Metals Corp. v. Banner, 778 F.2d 775, 227 USPQ 773 (Fed. Cir. 1985) (holding that an earlier species disclosure in the prior art defeats any generic claim) 4. This court’s predecessor has held that, without a terminal disclaimer, the species claims preclude issuance of the generic claim. In re Van Ornum, 686 F.2d 937, 944, 214 USPQ 761, 767 (CCPA 1982); Schneller, 397 F.2d at 354. Accordingly,

absent a terminal disclaimer, claims 12 and 13 were properly rejected under the doctrine of obviousness-type double patenting.” (In re Goodman (CA FC) 29 USPQ2d 2010 (12/3/1993).

***Claim Rejections - 35 USC § 102***

15. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

**16. Claims 1-24 are rejected under 35 U.S.C. 102(f) because the applicant did not invent the claimed subject matter.**

See Double Patenting rejection above and the Patent’s inventors conflict.

**17. Claims 1-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Kirsch et al. (US Patent Application Publication 2005/0120225, hereinafter Kirsch).**

**Regarding claims 1 and 12, Kirsch teaches**

- a method for determining whether a communication device is permitted to access communication service in a communication network, the communication device comprising **(abstract, user and configuration data)**;
- a data memory capable of storing ciphertext access information **(pars. 8-11, user data in encrypted form)**; and
- an inerasable memory capable of storing a deciphering key in a non-volatile way **(pars. 34-36, non-volatile memory stores keys and cryptographic functions)**;

- the method comprising: reading the deciphering key in the inerasable memory and the ciphertext access information in the data memory (**pars. 44-47, execute function using key**); and
- deciphering the ciphertext access information to plaintext access information according to the deciphering key by using a predetermined cryptography algorithm (**pars. 45-50, using private key**), and
- determining whether the communication device is permitted to access communication service in the communication network accordingly (**pars. 26-28, 35-42, permitting access upon validation**).

**Regarding claim 20**, Kirsch teaches

- a method applied in a communication network, wherein the communication network comprises a plurality of communication devices and each communication device comprises an inerasable memory and a data memory (**abstract, user and configuration data**);
- the method being capable of determining whether each communication device is permitted to access communication service of the communication network (**pars. 26-28, 35-42, permitting access upon validation**);
- the method comprising: providing a plurality of different enciphering keys and a plurality of deciphering keys according to a cryptography algorithm (**pars. 44-47, execute function using key**),
- wherein each enciphering key corresponds to each deciphering key (**pars. 47-49, asymmetrical RSA**);



- providing different corresponding enciphering keys to different communication devices (**pars. 47-49, asymmetrical RSA**);
- enciphering access information corresponding to each communication device to ciphertext access information by the cryptography algorithm according to the enciphering key corresponding to the communication device (**pars. 8-11, user data in encrypted form**);
- storing deciphering keys corresponding to the enciphering keys corresponding to each of the communication devices in the inerasable memory (**pars. 34-36, non-volatile memory stores keys and cryptographic functions**);
- storing ciphertext access information of each communication device in the data memory of the communication device (**pars. 8-11, user data in encrypted form**); and
- when determining whether a communication device is permitted to access the communication service (**pars. 26-28, 35-42, permitting access upon validation**),
- deciphering the ciphertext access information in the data memory by the cryptography algorithm according to the enciphering key stored in the inerasable memory (**pars. 45-50, using private key**), and
- determining whether the communication device is permitted to access the communication service according to the deciphered ciphertext access information (**pars. 26-28, 35-42, permitting access upon validation**).

**Regarding claims 2, 13, and 22**, Kirsch teaches wherein the cryptography algorithm is an asymmetric encryption-and-decryption algorithm / such that an enciphering key is not equal to the corresponding deciphering key, and when a plaintext is enciphered into a ciphertext according to the enciphering key by the cryptography algorithm, the cryptography algorithm cannot decipher the ciphertext into the original plaintext according to the enciphering key (**pars. 47-49, asymmetrical RSA**).

**Regarding claim 3**, Kirsch teaches wherein the data memory is a non-volatile memory (**pars. 32-33, ROM**).

**Regarding claims 4 and 14**, Kirsch teaches

- enciphering access information corresponding to the communication device into the ciphertext access information by the cryptography algorithm according to an enciphering key (**pars. 8-11, user data in encrypted form**),
- wherein the enciphering key corresponds to the deciphering key; and recording the ciphertext access information in the data memory (**pars. 47-49, asymmetrical RSA**).

**Regarding claims 5 and 15**, Kirsch teaches generating the enciphering key and the corresponding deciphering key according to the cryptography algorithm before generating the ciphertext access information according to the enciphering key (**pars. 50-51**).

**Regarding claims 6, 16, and 23**, Kirsch teaches wherein the communication network comprises a service provider capable of providing communication service to the communication device; there being a database in the service provider for recording the

enciphering key and the access information corresponding to the communication device  
**(pars. 51-52, storing at ASP).**

**Regarding claim 7**, Kirsch teaches wherein when generating the ciphertext access information according to the enciphering key, the service provider enciphers the access information corresponding to the communication device to generate the ciphertext access information according to the enciphering key stored in the database  
**(pars. 51-52, storing at ASP).**

**Regarding claim 8**, Kirsch teaches wherein when recording the ciphertext access information in the data memory, transmitting the ciphertext access information from the service provider to the communication device via the communication network, and recording the ciphertext access information in the data memory with the communication device **(pars. 50-53, storing at ASP and synchronizing).**

**Regarding claims 9 and 21**, Kirsch teaches wherein the enciphering key is different from the deciphering key / wherein the deciphering keys corresponding to different enciphering keys are different **(pars. 47-49, asymmetrical RSA).**

**Regarding claims 10 and 17**, Kirsch teaches wherein when determining whether the communication device is permitted to access communication service of the communication network according to the plaintext access information, determining whether the plaintext access information conforms to predetermined access information; the communication device being determined permitted to access the communication service of the communication network if the plaintext access information conforms to the

predetermined access information (**pars. 26-28, 35-42, permitting access upon validation**).

**Regarding claims 11 and 18**, Kirsch teaches

- in which the communication device further comprises a subscriber identification module card (SIM card) capable of recording a subscriber identification number (**pars 26-28, SIM**),
- and a predetermined identification number is recorded in the plaintext access information (**pars 26-28, identity module**),
- wherein when determining whether the communication device is permitted to access communication service in the communication network according to the plaintext access information (**pars. 26-28, 35-42, permitting access upon validation**),
- determining whether the subscriber identification code conforms to the predetermined identification code; the communication device being permitted to access the communication service if the predetermined identification code and the subscriber identification code correspond to each other, and the communication device being not permitted to access the communication service and having access to the communication network stopped if the predetermined identification code and the subscriber identification code do not correspond to each other (**pars. 26-28, 35-42, permitting access upon validation**).

**Regarding claims 19 and 24**, Kirsch teaches in which the communication device is a cell phone, and the communication network is a wireless communication network (**pars. 24-28, mobile telephone, par. 25, wireless device, service provider**).

***Conclusion***

18. **Examiner's Note:** Examiner has cited particular columns and line numbers in the references as applied to the claims below for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that the applicant, in preparing the responses, fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

19. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 2136

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David García Cervetti whose telephone number is (571)272-5861. The examiner can normally be reached on Monday-Tuesday and Thursday-Friday.

21. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on (571)272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

22. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David García Cervetti/

/Nasser G Moazzami/  
Supervisory Patent Examiner, Art Unit 2136